

**CLAIMS**

**What is claimed is:**

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1. A specialty fluoroelastomer comprising copolymerized units of 10 to 40 mole percent ethylene; 20 to 40 mole percent perfluoro ether selected from the group consisting of perfluoro(alkyl vinyl ethers), perfluoro(alkyl alkenyl ethers) and perfluoro(alkoxy alkenyl ethers); 32-60 mole percent  
10 tetrafluoroethylene; and 0.1 to 15 mole percent of a cure site monomer selected from the group consisting of i) 3,3,3-trifluoropropene-1, ii) trifluoroethylene, iii) 1,2,3,3,3-pentafluoropropylene, iv) 1,1,3,3,3-pentafluoropropylene, and v) 2,3,3,3-tetrafluoropropene.

2. A specialty fluoroelastomer of Claim 1 wherein said  
15 copolymerized units of ethylene are present in an amount between 20 and 40 mole percent; said copolymerized units of perfluoro ether in an amount between 20 and 30 mole percent; said copolymerized units of tetrafluoroethylene in an amount between 40 and 50 mole percent and said copolymerized units of cure site monomer in an amount between 2  
20 and 10 mole percent.

3. A specialty fluoroelastomer of Claim 2 wherein said cure site monomer is 3,3,3-trifluoropropene-1.

4. A specialty fluoroelastomer of Claim 2 wherein said perfluoro ether is perfluoro(methyl vinyl ether).

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